AMENDMENTS TO THE CLAIMS:

- 1. cancelled
- 2. (new): An apparatus comprising:

an input port receiving a WDM optical signal including a variable number of second optical signals having different wavelengths and monitoring the received WDM optical signal;

an optical amplifier which amplifies the received WDM optical signal with a first mode in which the received WDM optical signal is amplified with an approximately constant gain during a process of changing the number of second optical signals; and,

an output port outputting the amplified WDM optical signal and monitoring the amplified WDM optical signal output therefrom.

- 3. (new). An apparatus according to claim 2, wherein the optical amplifier amplifies the received WDM optical signal with a second mode in which the received WDM optical signal is amplified with a predetermined level.
- 4. (new): An apparatus according to claim 3, wherein the optical amplifier is switchable between the first mode and the second mode.
- 5. (new): A method of amplifying a WDM optical signal including a variable number of second optical signals having different wavelengths, comprising:

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receiving the WDM optical signal and monitoring the received WDM optical signal;

amplifying the received WDM optical signal with a first mode in which the received WDM optical signal is amplified with an approximately constant gain during a process of changing the number of second optical signals; and,

outputting the amplified WDM optical signal and monitoring the amplified WDM optical signal.

- A method according to claim 5, wherein the received WDM optical signal 6. (new): is amplified with a second mode in which the received WDM optical signal is amplified with a predetermined level.
- A method according to claim 6, wherein the first mode is switchable to the 7. (new): second mode.

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